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PRODUCTION OF PHOSPHOR

Patent number:	JP62201989	Also published as:
Publication date:	1987-09-05	EP0221562 (A)
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Classification:		
- international:	C09K11/08	
- european:	C09K11/08; C09K11/08B	
Application number:	JP19860252037 19861024	
Priority number(s):	JP19850248124 19851107	

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Abstract of JP62201989

PURPOSE: To provide a simple process for obtaining a granular phosphor substance having a shape of an approximately true sphere, which comprises heating a phosphor material suspending or falling in a gas phase at a particular temp., followed by cooling. **CONSTITUTION:** A phosphor material suspending or falling in a gas phase is heated to a temp. at which the activator contained in the material can act on the matrix of the material. The heated material is allowed to cool to obtain an intended phosphor. A preferable phosphor material is one obtd. by granulation of a powdery raw material having a compsn. which leads to the same or nearly the same compsn. as that of the phosphor by calcination according to necessity, that is, gives the same compsn. as that of the phosphor by heating. It is pref. that the shape of the granular material obtd. by granulation be approximate to a true sphere. Although the granule diameter of the granular material may be regulated according to usage, a preferable diameter is in the range of 0.2-200µm. Suitable heat sources for the phosphor material are a high-energy plasma and an oxyhydrogen flame. Among these, a high-energy plasma is pref. from the viewpoint of obtaining a fluorescent substance exhibiting a high brightness and a high light transmission.

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